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Hawkesbury, ON  
K6A 1K7  
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**D5474-1**  
**Job Sheet 195151**



Part No: D5474-1

Job Qty: 12 pcs

Part Name: Spacer



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 5/15/19

Job Tracking No:

Due Date: 6/20/19

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV A IPP REV.A NEW ISSUE JFS 17/03/10 VERIFIED BY: DD

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation    | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off     |
|-------|--------------|--------|------------|----------|-----------|---------|-----------------------|-----------|--------------|
|       |              |        |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |              |
| 100   | Hardinge - 1 | 12 pcs | 6/20/19    | 6/20/19  | 0.00      | 0.96    | Hardinge - 1          |           | JSD 19/06/11 |
| 110   | QC 2         | 12 pcs | 6/20/19    | 6/20/19  | 0.00      | 0.00    | QC 2 - 1              |           |              |
|       |              |        |            |          |           |         | QC 2 - 12             |           |              |
|       |              |        |            |          |           |         | QC 2 - 14             |           |              |
|       |              |        |            |          |           |         | QC 2 - 17             |           |              |
|       |              |        |            |          |           |         | QC 2 - 19             |           |              |
|       |              |        |            |          |           |         | QC 2 - 2              |           |              |
|       |              |        |            |          |           |         | QC 2 - 20             |           |              |
|       |              |        |            |          |           |         | QC 2 - 22             |           |              |
|       |              |        |            |          |           |         | QC 2 - 23             |           |              |
|       |              |        |            |          |           |         | QC 2 - 25             |           |              |
|       |              |        |            |          |           |         | QC 2 - 32             |           |              |
|       |              |        |            |          |           |         | QC 2 - 33             |           |              |
|       |              |        |            |          |           |         | QC 2 - 35             |           |              |
|       |              |        |            |          |           |         | QC 2 - 39             |           |              |
|       |              |        |            |          |           |         | QC 2 - 4              |           |              |
|       |              |        |            |          |           |         | QC 2 - 40             |           |              |
|       |              |        |            |          |           |         | QC 2 - 44             |           |              |
|       |              |        |            |          |           |         | QC 2 - 45             |           |              |
|       |              |        |            |          |           |         | QC 2 - 48             |           |              |
|       |              |        |            |          |           |         | QC 2 - 49             |           |              |
|       |              |        |            |          |           |         | QC 2 - 50             |           |              |
|       |              |        |            |          |           |         | QC 2 - 51             |           |              |
|       |              |        |            |          |           |         | QC 2 - 52             |           |              |
|       |              |        |            |          |           |         | QC 2 - 57             |           |              |
|       |              |        |            |          |           |         | QC 2 - 62             |           |              |
|       |              |        |            |          |           |         | QC 2 - 63             |           |              |
|       |              |        |            |          |           |         | QC 2 - 8              |           |              |
|       |              |        |            |          |           |         | QC 2 - 66             |           |              |
|       |              |        |            |          |           |         | QC 2 - 64             |           |              |
|       |              |        |            |          |           |         | QC 2 - 65             |           | JSD 19/06/11 |

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|                                 |        |         |           |                        |            |
|---------------------------------|--------|---------|-----------|------------------------|------------|
| 120 QC 8                        | 12 pcs | 6/20/19 | 0.00 0.00 | QC 2 - 5               |            |
|                                 |        |         |           | QC 2 - 71              |            |
|                                 |        |         |           | QC 8 - 12              |            |
|                                 |        |         |           | QC 8 - 14              |            |
|                                 |        |         |           | QC 8 - 17              |            |
|                                 |        |         |           | QC 8 - 20              |            |
|                                 |        |         |           | QC 8 - 25              | 2L 19.6-12 |
|                                 |        |         |           | QC 8 - 3               |            |
|                                 |        |         |           | QC 8 - 32              |            |
|                                 |        |         |           | QC 8 - 33              |            |
|                                 |        |         |           | QC 8 - 35              |            |
|                                 |        |         |           | QC 8 - 39              |            |
|                                 |        |         |           | QC 8 - 4               |            |
|                                 |        |         |           | QC 8 - 44              |            |
|                                 |        |         |           | QC 8 - 45              |            |
|                                 |        |         |           | QC 8 - 49              |            |
|                                 |        |         |           | QC 8 - 58              |            |
|                                 |        |         |           | QC 8 - 8               |            |
|                                 |        |         |           | QC 8 - 9               |            |
|                                 |        |         |           | QC 8 - 68              |            |
|                                 |        |         |           | QC 8 - 67              |            |
|                                 |        |         |           | QC 8 - 1 (A)           |            |
|                                 |        |         |           | QC 8 - 47              |            |
|                                 |        |         |           | QC 8 - 40              |            |
|                                 |        |         |           | QC 8 - 52              |            |
|                                 |        |         |           | QC 8 - 23              |            |
| 130 Packaging 3-1 - Stock - B4B | 12 pcs | 6/20/19 | 0.00 0.00 | Packaging 3 - 1 - B4B  |            |
|                                 |        |         |           | Packaging 3 - 2 - B4B  |            |
|                                 |        |         |           | Packaging 3 - 3 - B4B  |            |
|                                 |        |         |           | Packaging 3 - 4 - B4B  |            |
|                                 |        |         |           | Packaging 3 - 5 - B4B  |            |
|                                 |        |         |           | Packaging 3 - 6 - B4B  |            |
|                                 |        |         |           | Packaging 3 - 7 - B4B  |            |
|                                 |        |         |           | Packaging 3 - 8 - B4B  |            |
|                                 |        |         |           | Packaging 3 - 9 - B4B  |            |
|                                 |        |         |           | Packaging 3 - 10 - B4B |            |
|                                 |        |         |           | Packaging 3 - 11 - B4B |            |
|                                 |        |         |           | Packaging 3 - 12 - B4B |            |
|                                 |        |         |           | Packaging 3 - 13 - B4B |            |
|                                 |        |         |           | Packaging 3 - 14 - B4B |            |
|                                 |        |         |           | Packaging 3 - 15 - B4B |            |
|                                 |        |         |           | Packaging 3 - 16 - B4B |            |
|                                 |        |         |           | Packaging 3 - 17 - B4B |            |
|                                 |        |         |           | Packaging 3 - 18 - B4B |            |
|                                 |        |         |           | Packaging 3 - 19 - B4B |            |
|                                 |        |         |           | Packaging 3 - 20 - B4B |            |
|                                 |        |         |           | Packaging 3 - 21 - B4B |            |
|                                 |        |         |           | Packaging 3 - 22 - B4B |            |
|                                 |        |         |           | Packaging 3 - 23 - B4B | Pc 5T 164  |
|                                 |        |         |           | Packaging 3 - 24 - B4B |            |
|                                 |        |         |           | Packaging 3 - 25 - B4B |            |
|                                 |        |         |           | Packaging 3 - 26 - B4B |            |
|                                 |        |         |           | Packaging 3 - 27 - B4B |            |
|                                 |        |         |           | Packaging 3 - 28 - B4B |            |
|                                 |        |         |           | Packaging 3 - 29 - B4B |            |
|                                 |        |         |           | Packaging 3 - 30 - B4B |            |
|                                 |        |         |           | Packaging 3 - 31 - B4B |            |
|                                 |        |         |           | Packaging 3 - 32 - B4B |            |
|                                 |        |         |           | Packaging 3 - 33 - B4B |            |

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|                                                                                                                                                                                                                                                                                                                |                                     |                   |                  |                        |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|------------------|------------------------|-----------------|
|                                                                                                                                                                                                                                                                                                                |                                     |                   |                  | Packaging 3 - 34 - B4B |                 |
|                                                                                                                                                                                                                                                                                                                |                                     |                   |                  | Packaging 3 - 35 - B4B |                 |
|                                                                                                                                                                                                                                                                                                                |                                     |                   |                  | Packaging 3 - 36 - B4B |                 |
| 140 QC 21 - SA                                                                                                                                                                                                                                                                                                 | 12 pcs                              | 6/20/19           | 0.00 0.00        | QC 21 - SA - 21        |                 |
|                                                                                                                                                                                                                                                                                                                |                                     |                   |                  | QC 21 - SA - 70        | DAS JUN 13 2019 |
|                                                                                                                                                                                                                                                                                                                |                                     |                   |                  | QC 21 - SA - 53        | 21              |
|                                                                                                                                                                                                                                                                                                                |                                     |                   |                  | 9-85                   |                 |
| Part Op 100 - 1-Turn as per Dwg. & Folio FB526 2- Deburr and break all sharp edge.<br>Descriptions: 110 - (QC2- Inspect parts off machine FAI/FAIB)<br>120 - (QC8- Inspect parts - second check)<br>130 - (Identify as per dwg & Stock Location: _____)<br>140 - (QC21- Final Inspection - Work Order Release) |                                     |                   |                  |                        |                 |
| <b>Job BOM</b>                                                                                                                                                                                                                                                                                                 |                                     |                   |                  |                        |                 |
| <b>Part / Item</b>                                                                                                                                                                                                                                                                                             | <b>Component Name</b>               | <b>Quantity</b>   | <b>Operation</b> | <b>Container</b>       |                 |
| MDELRINR1.250                                                                                                                                                                                                                                                                                                  | Delrin Round Bar 1.25" Color: Black | .6000 ft (.05 ea) | 100-Hardinge - 1 | S151278                |                 |
| <b>Job Allocations</b>                                                                                                                                                                                                                                                                                         |                                     |                   |                  |                        |                 |
| <b>Operation</b>                                                                                                                                                                                                                                                                                               | <b>Component Part</b>               | <b>Required</b>   | <b>Inventory</b> | <b>Allocated</b>       |                 |
| 100-Hardinge - 1                                                                                                                                                                                                                                                                                               | MDELRINR1.250                       | 1                 | 14               | 0                      |                 |
| <b>Part Specifications</b>                                                                                                                                                                                                                                                                                     |                                     |                   |                  |                        |                 |
| Specifications could not be found.                                                                                                                                                                                                                                                                             |                                     |                   |                  |                        |                 |

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Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                         | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div> |              |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                   | Sequence #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MRB (QSI042) |                        |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br>Operator <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Presservation <input type="checkbox"/><br>Material <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Human Factors <input type="checkbox"/> | <b>FAULT CATEGORY</b><br><br><div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                        |  |



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**Container No: S189417**



**Part: D5474-1**

**Job No: 195151**

**Serial No/Batch: S189417**

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions: Various STC's**

**Date: 06/11/19**